

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Qualitative Exposure Assessment for Tetrachlorvinphos

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TO: Anne L. Barton, Acting Director
Hazard Evaluation Division (TS-769C)

EAB has looked at the available data and has performed a qualitative exposure assessment for tetrachlorvinphos. As discussed previously, these numbers are very soft and should not be used as supporting data for a regulatory decision. I hope this information is helpful to you.

Karen E. Warkentien
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Special Review Section
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Attachment

TETRACHLORVINPHOS - Qualitative Exposure Assessment

Feed Through

- o 7.76% G is typical formulation.
- o Absolutely no data exist with which to come up with any reliable indicator of exposure. However, EAB believes potential exposure from this use could be appreciable by both the dermal and inhalation routes.

Mineral Blocks, Ear Tags, Pet Flea Collars

- o Pre-formulated and impregnated.
- o Exposure should be negligible.

Barn Spray

- o Fine mist spray application by gasoline-powered hydraulic sprayer; 7-8 applications per year; 2.0% spray.
- o Exposure would be in the 10^1 - 10^2 mg/kg/yr.

Large Animal Spray

- o Coarse spray application by gasoline-powered hydraulic sprayer with hand-held spray gun; 0.013 lb ai/animal; 150 animals/treatment; 7 treatments/yr.
- o Exposure would be in the 10^0 - 10^1 mg/kg/yr.

Recreational Areas

- o 1 lb ai/A (from label)
- o Exposure would be in the 10^0 mg/kg/A range.
Assuming 10 A/yr = 10^1 mg/kg/yr range.
Assuming 100 A/yr = 10^2 mg/kg/yr range.